

ECS Configuration Change Request

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Page(s)

1. Originator Cherry Kenney	2. Log Date: 04/08/03	3. CCR #: 03-0249	4. Rev: —	5. Tel: 301-883-4177	6. Rm #: 3204D	7. Dept. DEV/CO
8. CCR Title: Patch_6A.07_SDSRV.02B						
9. Originator Signature/Date Cherry Kenney /s/ 04/07/03			10. Class II	11. Type: CCR	12. Need Date: 07Apr03	
13. Office Manager Signature/Date Louis Swentek /s/ 04/07/03			14. Category of Change: Initial ECS Baseline Doc.		15. Priority: (If "Emergency" fill in Block 27). Routine	
16. Documentation/Drawings Impacted (Review and submit checklist):			17. Schedule Impact:		18. CI(s) Affected:SDSRV	
19. Release Affected by this Change: 6A		20. Date due to Customer: 07Apr03		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: 34257, 34652, 34996, 35106, 35871, 36236, 36242, 36392, 36485, 36512, 36600, 36737, 36742, 36762, 36773, 36885, 36597						
23. Problem: (use additional Sheets if necessary) This is a monthly rollup of Science Data Server subsystem.						
24. Proposed Solution: (use additional sheets if necessary) Deliver Patch_6A.07_SDSRV.02B to all DAACs.						
25. Alternate Solution: (use additional sheets if necessary) Wait until next SDSRV delivery.						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) Identified SDSRV problems will continue.						
27. Justification for Emergency (If Block 15 is "Emergency"): NA						
28. Site(s) Affected: <input checked="" type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input checked="" type="checkbox"/> VATC <input checked="" type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input checked="" type="checkbox"/> LaRC <input checked="" type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. EDF/SCDV CCB Chair (Sign/Date): Mary S. Armstrong /s/ 4/8/03		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS				
33. M&O CCB Chair (Sign/Date): Pamela Johnson /s/ 04/08/03		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS				
34. ECS CCB Chair (Sign/Date):		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS				

ADDITIONAL SHEET

CCR #: 03-0249 **Rev: — Originator:** Cherry Kenney

Telephone: 301-883-4177 **Office:** 3204D

Title of Change: Patch_6A.07_SDSRV.02B

Actions

ClearCase

Please make the following tar files from the 6A07EBF1 baseline:

Please make one SOL8 tar file with the following packages:

.EcDsSdSDSRV.pkg
.EcDsSdDatabase.pkg
.EcDsSdOPSWs.pkg
.EcDsSdValids.pkg

Please make one IRIX65 (irix65) tar file with the following package:

.EcDsSdHdfEos.pkg (New package)

Please label this tar file Patch_6A.07_SDSRV.02B

Continued from page 1 : Block 22 & 23

ECSed36737 SEV2 EDC DAAC Export Valids does contain new PSAs for AST_L1B and AST_L1A
ECSed36485 SEV2 EDC DAAC :Various IGSBKT Requests Suspend
ECSed36512 SEV2 EDC DAAC 6A.07:Granule Deletion Tool does not process DAP files
ECSed36762 SEV3 EDC DAAC - Increase time attribute lengths in SDSRV valids file
ECSed34257 SEV3 EDC DAAC :Landsat 7 IGS metadata ingest accepts SCENE_CCA val
ECSed36885 SEV2 EDC DAAC TS2:6A07: Acquires not recovered if HDF server fails

ECSed34996 SEV2 GSFC DAAC -ScienceDataServer is running out of memory once or
ECSed35871 SEV5 GSFC DAAC Need SDSRV stored procedure to get granule AlgorithmPackage
ECSed36242 SEV5 GSFC- Update to "Update ESDT", request to execute not in

ECSed36773 SEV2 NSIDC DAAC MTMGW 'OR' searches broken(delivered in TE_6A.07_SDSRV.01)

ECSed36597 SEV5 EDFGranuleTimeDuration attribute needs to be added to the SDSRV valids file
ECSed34652 SEV2 EDF Notifications for delete events clog up SBSRV
ECSed36742 SEV3 EDF Ref: ECSed35308 INGEST fix impacts SDSRV to fix TimeOfDay to 7 digits
ECSed36236 SEV5 EDF Temporal size support needed in update/install ESDT
ECSed36600 SEV5 EDF GranuleTimeDuration attribute needs to be added to Collection Template
ECSed35106 SEV5 EDF DsMdInputGranule index change

ECSed36392 SEV2 :GDT failed to mark any granules after a hardware failure

PATCH Dependencies:

Patch_6A.07_SDSRV.02B supersedes all previous deliveries of SDSRV code and SDSRV databases
Patch_6A.07_SDSRV.02B and Patch_6A.07_BMGT.02A must be installed at the SAME time.

Note : Special Instructions for EDC to install just the fix for NCR36885 as a TE are included at the end of the instructions

A. PREINSTALLTION:

1. Untar the SOL8 (sun5.8) tar file using the *Setup.ksh file in the <staging_area>/SOL8 directory
2. Untar the IRIX65 (irix65) tar file using the *Setup.ksh file in the <staging_area>/IRIX65 directory

3. As Root un tar the most recent EcsAssist.

VERY IMPORTANT INFORMATION LISTED BELOW IN STEP 4

4. Perform the following workaround to remove fixes for NCR35106 & NCR34204, which failed verification, from Patch_6A.07_SDSRV.02B

```
cd <staging_area>/SOL8/CUSTOM/dbms/DSS
```

Remove the following files from the staging area:

```
DsDbPatch6533.ksh
DsDbPatch6533.sql
DsDbPatch6536.ksh
DsDbPatch6536.sql
```

```
cd <staging_area>/SOL8/CUSTOM/.installed/DSS/sdsrv
```

Remove the following files from the .EcDsSdSrvDB.iu

```
DsDbPatch6533.ksh
DsDbPatch6533.sql
DsDbPatch6536.ksh
DsDbPatch6536.sql
```

5. login to the host where the EcDsScienceDataServer resides (xxacs01) and kill the EcDsScienceDataServer

6. Bring down GUI and HdfEos Servers(EDC Only)

B. INSTALLATION:

Logon to any SUN host and install the listed packages using E.A.S.I.

```
.EcDsSdSDSRV.pkg
.EcDsSdDatabase.pkg
.EcDsSdOPSWs.pkg
.EcDsSdValids.pkg
.EcDsSdHdfEos.pkg
```

As cms shared copy the DLLs in /usr/ecs/<MODE>/CUSTOM/lib/ESS to /usr/ecs/<MODE>/CUSTOM/lib/DSS (this includes new DLLs for ncr 36885)

/C. CONFIGURATION:

Bring up ECS Assist on xxacsnn(host where SDSRV is installed)

Using the Subsystem Manager, run EcDsUpdateESDTMkcfg

D. PATCH SDSRV DATABASE:

VERY IMPORTANT: DO NOT INSTALL PATCHES 6533&6536 (SEE PREINSTALLATION SECTION)

1. Logon to the xxacsnn host (where the the SDSRV Database Package is installed)
2. Bring up EcsSubsystem Manager and patch the DPL database up to Patch 6536

Patch Number Patch Description

Last patch installed as part of the 6A07 delivery was 6528

6530 Add new attributes for BMGT(35346 which is in Patch_6A.07_BMGT.02B)

6532- Temporal size support needed in update/install ESDT"(NCR 36236)

6534 - Modified ProcDeleteProcess for NCR 36796 and modified stored procedures for Access Stats NCRs 36874/36160

Install the latest SDSRV valids file using EcsAssist.

E. Post Installation

Bring up SDSRV servers, GUI and HdfEos Servers(EDC Only)

Instructions for using the new ESDT Update Utility

Currently the update ESDT function requires that the Science DataServer be brought up in "maintenance" mode. The new program EcDsUpdateESDT allows operators to update ESDT without going through SDSRV.

Usage:

```
cd /usr/ecs/<MODE>/CUSTOM/utilities
EcDsUpdateESDTStart MODE DescriptFileName1 DescriptFileName2 ...
```

DescriptFileName1 is the descriptorfile name (if it is in DSSDESCINPUTDIR) or descriptorfile name with full path.

The debug information will go to screen, and can be redirected to a file. At the end of the program, it reports the status of the updates(fail or successful). If update fails, check the fail reason print out to screen, and also EcDsUpdateESDT.ALOG for details.

NOTE: PLEASE REMEMBER, YOU NEED TO RESTART SDSRV IN ORDER TO TAKE THE CHANGES OF THES ESDTS, IF THEY HAVE BEEN USED AFTER SDSRV WAS LAST RESTARTED.

IMPORTANT NOTE: If a EDC wishes to install fix for NCR 36885, in a mode prior to installing the entire patch, listed below are the instructions

1. Login to the host where SDSRV is installed (xxacsnn)

```
cp <staging_area>/SOL8/CUSTOM/lib/DSS/libDsCsSh.so /usr/ecs/<MODE>/CUSTOM/lib/DSS
cp <staging_area>/SOL8/CUSTOM/lib/DSS/libDsHrSh.so /usr/ecs/<MODE>/CUSTOM/lib/DSS
cp <staging_area>/SOL8/CUSTOM/lib/libDsHcSh.so /usr/ecs/<MODE>/CUSTOM/lib/DSS
cp <staging_area>/SOL8/CUSTOM/lib/libDsSrSh.so /usr/ecs/<MODE>/CUSTOM/lib/DSS
cp <staging_area>/SOL8/CUSTOM/lib/libDsESDTLsL70RWRS.001Sh.so /usr/ecs/<MODE>/CUSTOM/lib/DSS
cp <staging_area>/SOL8/CUSTOM/lib/libDsESDTLsL70R.001Sh.so /usr/ecs/<MODE>/CUSTOM/lib/DSS
```

Login to the host where HDF EOS Server is installed

```
cp <staging_area>/IRIX65/CUSTOM/bin/DSS/EcDsHdfEosServer /usr/ecs/<MODE>/CUSTOM/bin/DSS
```